Sternidius moderator (Casey)

This species has been recorded from the District of Columbia, Florida, Louisiana, and North Carolina. It has been reported from Mt. Vernon and Virginia Beach (on *Morus* sp.) in mid June.

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EUBRIANAX EDWARDSI IN NEVADA WITH NOTES ON LARVAL PUPATION AND EMERGENCE OF ADULTS (COLEOPTERA: PSEPHENIDAE)

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ABSTRACT

Larvae of *Eubrianax edwardsi* were collected near Reno, Nevada 16 March 1969. In the laboratory, pupation occurred between 21 April and 17 May. Adults emerged between 17 and 29 May. Twenty per cent of the larvae pupated and emerged as adults.

On 16 March 1969 a series of larvae of *Eubrianax edwardsi* (Le Conte, 1874) was collected from the submerged sides and bottoms of rocks in Hunter Creek, Washoe County, Nevada, about 150 m above its confluence with the Truckee River (T19N, R19E, S19), elevation 4680′ (1427 m). The rocks protruded above the surface of the water. This locality is on the present western edge of Reno. La Rivers (1950) reported the only known collection of the beetle from Nevada: Douglas County, Zephyr Cove (Lake Tahoe), 31-VII-41, T. J. Trelease, 6300′ (1920 m), 56 km S of our collection, and predicted a wider distribution along the eastern edge of the Sierra Nevada. Brown (1972) noted that the larvae are found "on or under submerged rocks in California and Oregon streams up to about 6,000 feet" (1829 m) elevation. Brown (In press) listed the genus from Nevada without further details.

The evening of 16 March 1969, 40 larvae were placed into a 5 gallon aquarium containing water and rocks from Hunter Creek. The rocks were large enough to protrude from the water's surface. A fine mesh wire screen top was fitted over the aquarium to prevent loss of any adults after emergence. The water was maintained at room temperature (ca 23°C) and kept under constant aeration.

Within an hour the majority had attached to the submerged portions of the rocks, where they remained until pupation. The results of the pupation and emergence studies are shown in Fig. 1. Observations were made for 81 days, until the beetles had either emerged or died. The first larva pupated above the water surface on 21 April, after 36 days in the aquarium. Larvae pupated until 17 May, all above the water line. At that time nearly half the larvae were dead. Adults emerged from 17 to 29 May, approximately 1 month after pupation. Adults flew around inside the aquarium and occasionally landed on the exposed portions of the rocks. Drowning claimed several adults which had not been collected the day of emergence.

Specimens are located in the collections of the authors and Harley P. Brown (University of Oklahoma, Norman) who also verified our identification and provided a copy of his distributional checklist. This research was conducted while the authors were at the University of Nevada, Reno.

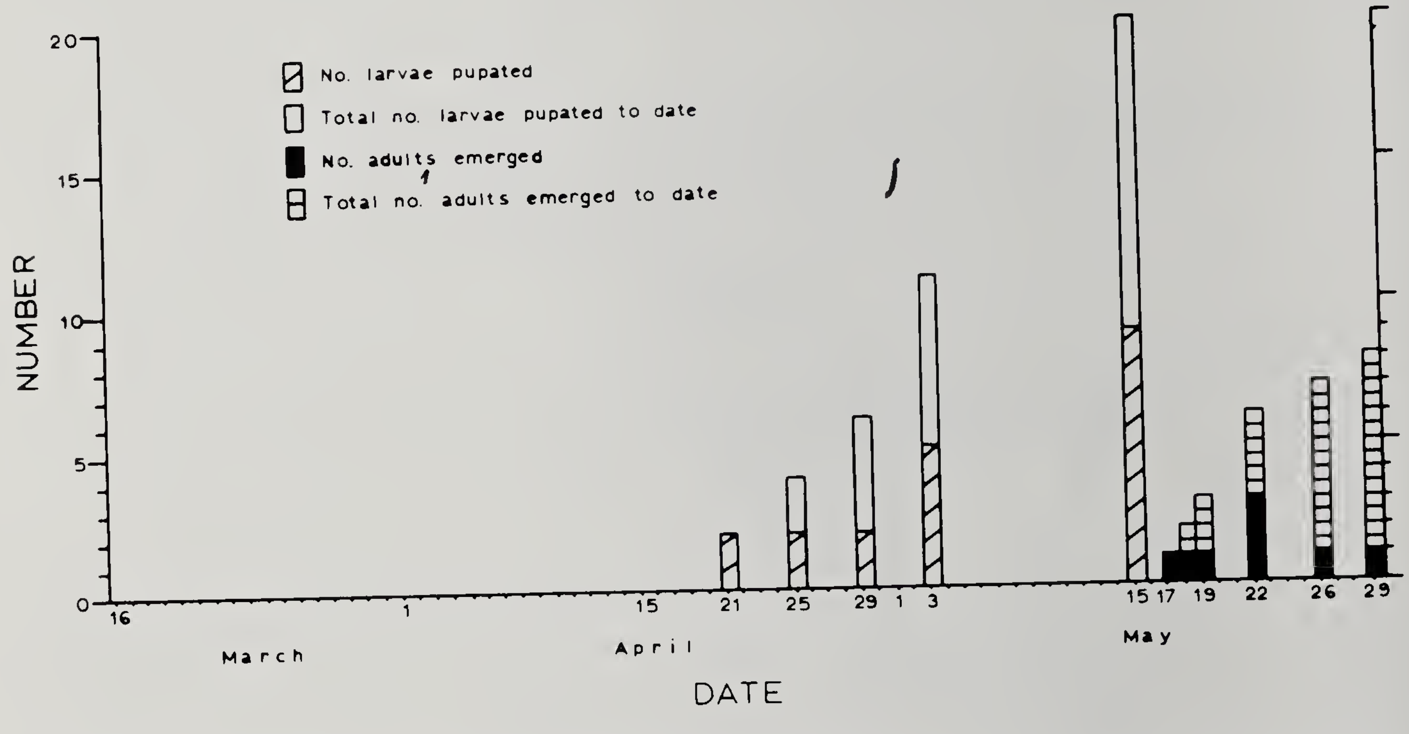

Fig. 1. Pupation and emergence of *Eubrianax edwardsi* at 23°C, Reno, Nevada. Forty larvae were collected and placed in the aquarium on 16 March 1969.

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